ME.40-14/3ASW-PK BUFFERABLE POWER SUPPLY USER'S MANUAL

WARNING!
This device, like all electrical products, MUST be treated with respect. Follow these instructions to reduce electrical hazard risk. The device MUST be grounded to reduce risk of electrical shock.

Input and output connectors and indicator of the device:

Usage of the device:
The device operates either as a battery charger or as a power supply. You can choose the operating mode by setting of the nominal output voltage by a potentiometer installed inside the device. The adjusted nominal voltage has to be measured by a multimeter. If the nominal voltage is under 12.5 VDC the device operates as a power supply (there is no deep discharge), above 13 VDC it operates as a battery charger.

1. ***Battery charger***
Contact the output **BATT** to the battery and output **DC OUT** to the load. The output voltage is 13.8 V at both contacts, max. output current is 3A. At the design of the load please pay attention to the current of the charger, this is determined by the loadability of the charger. The total load at the outputs **BATT** and **DC OUT** can be max. 3 A. Pay attention to the right polarity! Plug the mains voltage to the input contact **AC IN 230 V 50/60 Hz.**

The meaning of the STATE signal:
Blinking green: Mains and battery voltage is OK
Bilking green-red: Mains voltage failure (in battery mode)
Blinking red: Battery deep discharge

The device charges the battery automatically (according to I-U characteristic), there is no need to any intervention. In case of mains power cut the device prevents the deep discharge or failure of the battery by switching off the load at below 10.5 V battery voltage. After returning of power the charging process starts. If the charging voltage reaches 12.5 V on the battery the loading is reconnected. This solution is working with safe and avoiding possible trouble.

2. ***Power supply***
Application example: supply of 12 VDC cameras
Connect the mains voltage to the input connector **230 V 50/60 Hz**. Adjust the output voltage by potentiometer installed inside the device to 12 V measured by a multimeter. **Max loading current is 3 A**. Use the connector **DC OUT** and **BATT**. In this operation mode the charger and deep discharge function are not in operation.

The meaning of the STATE signal:
Continuous green: Output is OK
Continuous red: Output is overloaded
The signal alters from green to red if the output voltage run under 11 V.

Specifications:
Input: 230 V ±10% 50/60 Hz
Output voltage: 12 V to 13.8 V
Output current: 3A
Insultation class: I.
Protection: IP 00
Max. ambient temperature: -10 °C…+50 °C
Dimensions: L=123 W=78 H=38 (mm)

Built-in protections against:
Overloading, short-circuit, overheating, overvoltage, deep discharge, changed polarity at battery (by fuse)